

CLAIMS

We claim:

1. A hazard protection suit with provisions for waste relief, the suit having a sealed interior and comprising:

5 a pants section having two pants legs which extend upwardly to a midsection below waist level;

an upper section which extends upwardly from the waist level;

10 portions of the midsection which define an outlet from the suit interior, the outlet being positioned at a lower region of the midsection to receive discharged bodily waste and allow the passage of the waste through the outlet;

15 a waste collector fixed to the midsection to receive waste passing through the outlet, the waste collector having an upper segment which is fixed to the suit midsection, an intermediate section which communicates with the upper segment, and a waste receptacle which communicates with the intermediate section;

20 a first closable seal positioned outwardly of the suit outlet and positioned between the outlet and the intermediate section;

a second closable seal positioned between the intermediate section and the waste receptacle; and

25 portions of the intermediate segment which define a region of weakened material which encircles the intermediate segment to permit the waste receptacle to be detached from the waste collector upper segment, such that waste is dischargeable through the suit outlet and past the first closable seal and the second closable seal when said seals are in an opened condition, the discharged waste being received within the waste receptacle, and sealed therein by closure of the second seal, and the suit interior being sealed by closure of the first seal, to permit the waste receptacle to be detached from the suit by severing the waste receptacle along the line of weakened material from the upper segment of the waste receptacle.

2. The suit of claim 1 further comprising an upwardly opening storage pocket formed on one of the two pants legs, wherein portions of the waste receptacle are receivable within the storage pocket prior to use in receiving waste.

3. The suit of claim 1 wherein the first closable seal and the second closable seal are formed of mating plastic members which are closable by the application of pressure thereto.

4. The suit of claim 1 wherein a plurality of waste collectors are affixed to the suit outlet.

5. The suit of claim 1 wherein the upper segment of the waste collector is comprised of two flaps, each flap having a concave upper edge which conforms to a shape of an underside of the suit midsection.

6. The suit of claim 1 wherein the waste collector has interior portions which are soft to serve as toilet tissue.

7. A waste collector for attachment to a hazard protection suit having a sealed interior and a midsection with a downwardly opening outlet from the interior, the waste collector comprising:

5 an upper segment for attachment to the suit midsection to surround the outlet;
an intermediate section which communicates with the upper segment;
a waste receptacle which communicates with the intermediate section;
a first closable seal positioned between the outlet and the intermediate section;
a second closable seal positioned between the intermediate section and the waste
receptacle; and
10 portions of the intermediate segment which define a region of weakened material
 which encircles the intermediate segment to permit the waste receptacle
 to be detached from the waste collector upper segment, such that waste
 discharged through the suit outlet and past the first closable seal and the
 second closable seal when said seals are in an opened condition is
15 received within the waste receptacle, and the first seal and the second
 seal are closable to retain the suit interior sealed to permit the waste
 receptacle to be detached from the waste collector by severing the waste
 receptacle along the line of weakened material from the upper segment of
 the waste receptacle.

20 8. The suit of claim 7 wherein the first closable seal and the second closable
 seal are formed of mating plastic members which are closable by the application of
 pressure thereto.

25 9. The suit of claim 7 wherein the upper segment of the waste collector is
 comprised of two flaps, each flap having a concave upper edge for conformity to a
 shape of an underside of a hazard protection suit midsection.

10. The suit of claim 1 wherein the waste collector has interior portions which are soft and absorbent to serve as toilet tissue.

11. A method for eliminating human waste from within a sealed interior of a hazard protection suit comprising the steps of:

5 urinating or defecating within the sealed interior of the hazard protection suit to discharge human waste;

causing the discharged human waste to pass through an outlet in the hazard protection suit;

10 receiving the discharged human waste which passes through the outlet within a waste collector fixed to the hazard protection suit to seal the outlet, the waste collector having an upper segment which is fixed to the suit, an intermediate section which communicates with the upper segment, and a waste receptacle which communicates with the intermediate section;

15 after the discharged human waste has been received within the waste receptacle, sealing a first seal positioned outwardly of the suit outlet and positioned between the outlet and the intermediate section and sealing a second seal positioned between the intermediate section and the waste receptacle; and

20 severing the waste receptacle from the intermediate section along portions of the intermediate segment which define a region of weakened material which encircles the intermediate segment between the first seal and the second seal; and

removing the severed waste receptacle with the human waste therein and disposing of it.

12. The method of claim 11 further comprising the step of, prior to the urinating or defecating step, storing portions of the waste receptacle within an upwardly opening storage pocket formed on a pants leg of the suit

13. The suit of claim 11 wherein the step of sealing the first closable seal and
5 the second closable seal comprises pressing together two opposed mating plastic members making up each seal.